

WHAT IS CLAIMED IS:

1. A consumable goods online shopping system that comprises communication information equipment that consumes consumable goods, a portal server to which  
5 data is sent from said communication information equipment, an electronic settlement server that performs the settlement of the transaction performed in said communication information equipment, a mail order center server for mail-ordering the consumable goods, a  
10 recycling plant server installed in a recycling plant of the consumable goods, and a merchandise control center server installed in a merchandise control center of the consumable goods that interconnect via a network, comprising:

15 said communication information equipment including,

first information processing means that performs processing of various information in the communication information equipment, first screen display means that  
20 displays information-processed information on the screen, first input means that inputs information necessary for information processing, first printing means that prints information-processed contents, first communicating means that communicates the information-processed contents via the network, first consumable  
25 goods consumption executing means that executes processing which consumes the consumable goods, and

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first consumable goods remaining quantity detecting  
means that detects a remaining quantity of the  
consumable goods,

said portal server including,

second information processing means that performs the processing of various information in the portal server, second display means that displays the information-processed information on the screen, second input means that inputs the information necessary for information processing, second printing means that displays the information-processed information on the screen, a second mail order address database in which a mail address and recovery cartridge information of the communication information equipment connected to the portal server are stored, a second delivery store database in which delivery stores of the consumable goods are stored, a second mail order center registration information database in which the information of a mail order center that is connected to the portal server and in which an order issue of the consumable goods is given, and a second consumable goods price database in which individual merchandise price information is stored for each mail order center.

said electronic settlement server including,

25           third information processing means that performs  
an electronic settlement based on authentication  
information input from the first input means on said

communication processing equipment, third screen  
display means that displays the information-processed  
information, third input means that inputs the  
information necessary for information processing, third  
5 printing means prints the information-processed  
contents, third communicating means for communicating  
the information necessary for performing the electronic  
settlement, and a third electronic settlement database  
in which the data necessary for performing the  
10 electronic settlement is stored,  
said mail order center server including,  
fourth information processing means that performs  
the processing of various information in the mail order  
center server, fourth screen display means that  
15 displays the information-processed information on the  
screen, fourth input means that inputs the information  
necessary for information processing, fourth printing  
means that prints the information-processed contents,  
fourth communicating means that communicates the  
20 information-processed contents via the network, a  
fourth merchandise database in which the data of the  
merchandise necessary for receiving the mail order  
including the price and the stock quantity of the  
consumable goods controlled in the mail order center, a  
25 fourth customer management database in which the  
customer information of the customer of which the order  
request is given, and a fourth order table database for

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storing the order table to which an order is given,

said recycling plant server including,

fifth information processing means that performs  
the processing of various information in the recycling

5 plant server, fifth screen means that displays the  
information-processed information on the screen, fifth  
input means that inputs the information necessary for  
information processing, fifth printing means that  
prints the information-processed contents, fifth

10 communicating means that communicates the information-  
processed contents via the network, a fifth cartridge  
information reader that reads the owner information  
stored in the storage area of the cartridge recovered  
in the recycling plant, and a fifth owner information  
15 management database in which the number of recovery  
cartridges and the owner information are linked and  
stored; and

said merchandise control center server including,

sixth information processing means that performs  
20 the processing of various information in the  
merchandise control center server, sixth screen display  
means that displays the information-processed  
information on the screen, sixth input means that  
inputs the information necessary for the information  
25 processing, sixth printing means that prints the  
information-processed contents, fifth communicating  
means that communicates the information-processed

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contents via the network, and a sixth merchandise inventory control database in which the merchandise inventory control information of the consumable goods is recorded.

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2. The portal server to which data is sent from said communication information equipment connected to the communication information equipment that consumes the consumable goods, the electronic settlement server that performs the settlement of the transaction performed in said communication information equipment, the mail order center server for mail-ordering the consumable goods, the recycling plant server installed in the recycling plant of the consumable goods, and the merchandise control center server installed in the merchandise control center of the consumable goods via the network, further comprising:

information processing means that performs the processing of various information in the portal server;

screen display means that displays the information-processed information;

input means that inputs the information necessary for information processing;

communicating means that communicates the information-processed contents via the network;

a mail address database in which the mail address and recovery cartridge information of the communication

a delivery store database in which delivery stores  
of the consumable goods are stored for each area;

10           a consumable goods price database in which the  
individual merchandise price information is stored for  
each mail order center.

mail address notification means that receives a  
mail address acquisition request issued by mail address  
automatic registering means of the communication  
information equipment, retrieves said mail address  
20 database, allocates and reports an unregistered empty  
mail address as the mail address of the communication  
information equipment to which a request is given; and

empty mail address retrieving means for supporting allocation by a portal server administrator.







machine type information;

said consumption amount discount calculating means that calculates discount information which matches the consumption amount of the consumable goods; and

5 recycling discount calculating means that acquires the number of recovery cartridges stored the second mail address database and calculates the discount information which matches the number of recovery cartridges, and

10 said information processing means

creates the price information portion for each mail order center according to the price information, stock information, consumption amount discount information, recycling discount information, and the  
15 number of orders setting area obtained by each of the processing, acquires the price information acquired by the price information acquiring means in the sequence sorted in the price order on the consumable goods database, creates the price information portion sorted  
20 in the state according to the price, and creates the price information portion of the order table in which priority is given to the specified mail order center when there is specification in the connection information to said mail order center server in the  
25 order start information,

said delivery information portion creating means including,

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delivery method specification area creating means that creates a specification area which can specify a delivery method including at least any one of mailing, conveyance, and store-based delivery as the

5 specification of the delivery method:

destination information specification area  
creating means that creates a destination information  
store specification area necessary for the mailing and  
conveyance;

10      and

delivery store specification creating means that creates a deliver store specification area necessary for the stored-based delivery.

the specification area obtained by each of said  
15 means is created as the delivery information portion,  
at creation of said destination information  
specification area, at least one of a postal number, an  
address, a name, and a telephone number written to the  
owner information in the order start information is set  
20 a fault value.

at the creation of said delivery store specification area, by store information default setting means, a delivery area is specified from the postal number, address, and telephone number, a second  
25 delivery store database is retrieved from specified regional information, and a store that is doing business in the delivery area is set so that it can

preferentially specified as a default,

regarding the second delivery store database, the latest data is always updated and registered by the control of the portal server administrator,

5           said electronic settlement information portion creating means comprises authentication data input area creating means that creates an area to which authentication data is input required for performing the electronic settlement in said electronic settlement  
10       server and creates the authentication data input area created by the authentication data input area creating means,

          the order issue portion creating means including,  
          order issue specification area creating means that  
15       creates the area in which the activation of a mail order issue instruction can be specified, and

          coupon ticket issuing specification area creating means that creates an area in which the activation of a coupon ticket issuing specification area can be  
20       specified, and

          the specification area created by said coupon ticket issuing specification area creating means is created as an order issue portion.

25           7. The portal server according to claim 6, wherein said information processing means comprises:  
          coupon ticket issuing notification receiving means

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that receives the sent coupon ticket issuing notification:

10 coupon information sending means that sends the  
ticket-issued coupon information to the communication  
information equipment.

back margin registering means at the side of the manufacturer that registers the information about the brokerage and discount fee that match the handing amount decided according to the arrangement with each mail order center by the data input of the portal server administrator;

order issue notification receiving means that receives a received order notification from the communication information equipment;

25           electronic settlement acknowledgment requesting  
means that receives the received order notification,  
creates acknowledgment information based on the

5           order issue request mediation means that receives  
acknowledgment result notification information from  
said electronic settlement server and performs  
mediation to the mail order center server;

10 receiving means that receives a received order  
acknowledgment notification from the mail order center  
server; and

15 notification and issues an order issue completion  
notification to the communication information  
equipment,

20           number of mediation items counting means that  
counts the number of mediation items for each mail  
order center when the electronic settlement is  
acknowledged according to the acknowledgment  
notification information from said electronic  
25   settlement server;

order issue request registering means that registers the number of orders counted by the number of

mediation items counting means in the second mail order registration information database for each mail order center together with the order table of the order of which the order issue request is received;

5           order issue request order table sending means that sends the order table of which the order request is received to the mail order center; and

              electronic settlement not-acknowledged notification means that sends an electronic settlement  
10       not-acknowledged notification to said first communication information equipment when the electronic settlement is not acknowledged, and

              the information processing means of said portal server including,

15           brokerage calculating means at the side of the manufacturer that calculates the brokerage paid to the side of the mail order center side in accordance with the number of orders that is counted by said number of mediation items counting means and registered in the  
20       mail order registration information database by said order issue request registering means; and

              order issue discount calculating means that calculates the discount paid to the mail order center in accordance with the number of mediation items.

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9. The portal server according to claim 8, wherein the information processing means of said portal

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settlement information calculating means at the side of the manufacturer that calculates monthly settlement information for each mail order center at a monthly settling day or according to the instruction of the server administrator;

10 settlement information backup means at the side of  
the manufacturer that backs up all of the settlement  
information total, settlement information, and order  
table handled within a settling month to the backup  
area in said second mail order center registration  
15 information database;

settlement information utility means at the side  
of the manufacturer that prints and deletes the  
information backed up in the backup area according to  
25 the instruction of the portal server administrator, and

said settlement information calculating means at the side of the manufacturer including:





10. The portal server according to claim 9,  
wherein said information processing means comprises:

stored merchandise order issue receiving means that receives the stored merchandise order issue of which the order issue is given by said stored merchandise order issue means; and

stored merchandise order issue mediation means that mediates the order issue of the stocked merchandise of which the received order is given and sends the order table to the merchandise control center server of the consumable goods.

11. The electronic settlement server that performs the settlement of the transaction performed in said communication information equipment that is connected to the communication information equipment that consumes the consumable goods, the portal server to which data is sent from said communication information equipment, the mail order center server for mail-ordering the consumable goods, the recycling plant server installed in the recycling plant of the consumable goods, and the merchandise control center server installed in the merchandise control center of the consumable goods via the network, comprising:

information processing means that performs the electronic settlement based on the authentication information input from the input means on said

communication information equipment;

screen display means that displays the  
information-processed information; input means that  
inputs the information necessary for information

5 processing;

printing means that prints the information-  
processed information;

communicating means for communicating the  
information for performing the electronic settlement;

10 and

electronic settlement data base in which the data  
required for performing the electronic settlement is  
stored.

15 12. The mail order center server for mail-  
ordering the consumable goods that is connected to the  
communication information equipment, the portal server  
to which data is sent from said communication  
information equipment, the electronic settlement server  
20 that performs the settlement of the transaction  
performed in said communication information equipment,  
the recycling plant server installed in the recycling  
plant of the consumable goods, and the merchandise  
control center server installed in the merchandise  
25 control center of the consumable goods through the  
network, comprising:

information processing means that performs the

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processing of various information in the mail order center server;

screen display means that displays the information-processed information on the screen;

5 the input means that inputs the information necessary for information processing;

the printing means that prints the information-processed contents;

10 the communicating means that communicates the information-processed contents;

the merchandise database in which the data of the merchandise necessary for receiving the mail order including the price and the stock quantity of the consumable controlled in the mail order center;

15 the customer management database in which the customer information of the customer in which the order request is given; and

the fourth order table database for storing the order table to which the order is given.

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13. The recycling plant server installed in the recycling plant of the consumable goods that is connected to the communication information equipment that consumes the consumable goods, the portal server  
25 to which data is sent from said communication information equipment, the electronic settlement server that performs the settlement of the transaction

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performed in said communication information equipment,  
the mail order center server for mail-ordering the  
consumable goods, and the merchandise control center  
server installed in the merchandise control center of  
5 the consumable goods, comprising:

the information processing means that performs the  
processing of various information in the recycling  
plant server;

the screen display means that displays the  
10 information-processed information;

the input means that inputs the information  
necessary for information processing;

the communicating means that communicates the  
information-processed contents via the network;

15 the cartridge information reader that reads the  
owner information stored in the storage area of the  
cartridge recovered to the recycling plant; and

the owner information management database in which  
the number of cartridges and the owner information are  
20 linked and stored.

14. The recycling plant server according to claim  
13, wherein said communication information equipment  
comprises:

25 cartridge owner information reading means that  
reads the owner information stored in the storage  
memory of the recovered cartridge;

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information when the mail address information in the owner information read by said cartridge owner information reading means is not registered in said owner information management database; and

- 5            recovery cartridge information update means that increments (counts up) the recovery cartridge information in the database when the mail address information is not registered in said owner information management database.

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15. The server that controls status of use of said consumable goods the first consumable goods trader who handles the consumable goods, further comprising:

- calculating means that receives the status of use  
15    of the consumable goods used in a printing device via a predetermined communication line and calculates a point against a customer in accordance with the received status of use; and

- compensation deciding means that decides  
20    compensation that is based on a reduced price, paid to said second consumable goods trader in accordance with the fact that said customer purchases the merchandise the second consumable goods trader offers at said reduced price that is based on said point via a  
25    predetermined purchase screen.

16. The server according to claim 15, further



used.

19. A consumable goods online shopping method applied to the consumable goods online shopping system that comprises communication information equipment that consumes consumable goods, the portal server to which data is sent from said communication information equipment, the electronic settlement server that performs the settlement of the transaction performed in said communication information equipment, the mail order center server for mail-ordering the consumable goods, the recycling plant server installed in the recycling plant of the consumable goods, and the merchandise control center server installed in the merchandise control center of the consumable goods that interconnect via the network, comprising:

the first information processing step that performs the processing of various information in the communication information equipment, the first screen display step that displays information-processed information on the screen, the first key input/pointing step that inputs the information necessary for information processing with a key/by a pointing device on the screen, the first printing step that prints information-processed information, the first communication step that communicates the information-processed contents via the network, the first

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center registration information database, the twenty-fourth storage step that stores individual merchandise price information in the second consumable goods price database for each mail order center, in said portal

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5 server;
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the third information processing step that performs the electronic settlement based on the authentication information input according to the first processing input on said communication information

10 equipment, the third screen display step that displays  
information-processed information on the screen, the  
third key input/pointing step that inputs the  
information necessary for information processing with  
the key or by the pointing device on the screen, the  
15 third printing step that prints information-processed  
contents, the third communication step for  
communicating the information necessary for performing  
the electronic settlement, the third storage step that  
stores the data necessary for performing the electronic  
20 settlement, in said electronic settlement server;

the fourth information processing step that performs the processing of various information in the nail order center server, the fourth screen display step that displays information-processed on the screen, 25 the fourth key input/pointing step that inputs the information necessary for information processing with the key or by the pointing device, the fourth printing

step that prints information-processed contents, the  
fourth communication step that communicates the  
information-processed contents via the network, the  
41st storage step that stores the merchandise data  
5 necessary for the mail order including the price and  
the stock quantity controlled in the mail order center  
in the fourth merchandise database, the 42nd storage  
step that stores the customer information of the  
customer of which order is requested in the fourth  
10 customer management database, the 43rd storage step the  
order table of which the order is given in the fourth  
order table database, the fifth information processing  
step that performs the processing of various  
information in the recycling plant server, in said mail  
15 order center server;

the fifth screen display step that displays  
information-processed information on the screen, the  
fifth key input/pointing step that inputs the  
information necessary for information processing with  
20 the key or by the point device on the screen, the fifth  
printing step that prints information-processed  
contents, the fifth communication step that  
communicates the information-processed information  
contents via the network, the fifth cartridge owner  
25 reading step that reads the owner information stored in  
the storage area of the cartridge recovered in a  
recycling plant, the fifth cartridge information

reading step that links and stores the number of recovery cartridges and the owner information, in said recycling plant server; and

the sixth information processing step that

5 performs the processing of various information in the merchandise control center server, the sixth screen display step that displays information-processed information on the screen, the sixth key input/pointing step that inputs the information necessary for

10 information processing, the sixth printing step that prints information-processed contents, the sixth communication step that communicates the information-processed contents via the network, and the sixth merchandise inventory step that records the merchandise

15 inventory control information of the consumable goods, in said merchandise control center.

20. The online shopping method by the server that controls the status of use of said consumable goods the

20 first consumable goods that handles the consumable goods offers, further comprising:

calculation step that receives the status of use of the consumable goods used in the printing device via the predetermined communication line; and

25 compensation decision step that decides the compensation based on said discount price, paid to said second consumable goods trader in accordance with the

fact that said customer purchases the merchandise the second consumable goods trader offers at the discount price based on said point via the predetermined communication line.

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21. A program for realizing the consumable goods online shopping system that comprises communication information equipment that consumes consumable goods, the portal server to which data is sent from said communication information equipment, the electronic settlement server that performs the settlement of the transaction performed in said communication information equipment, the mail order center server for mail-ordering the consumable goods, the recycling plant server installed in the recycling plant of the consumable goods, and the merchandise control center server installed in the merchandise control center of the consumable goods that interconnect via the network, wherein the program the computer execute:

20 the first information processing step that performs the processing of various information in the communication information equipment, the first screen display step that displays information-processed information on the screen, the first key input/pointing step that inputs the information necessary for information processing with the key/by the pointing device on the screen, the first printing step that

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prints information-processed information, the first communication step that communicates the information-processed contents via the network, the first consumable goods consumption execution step that  
5 executes the processing which consumes the consumable goods, the first consumable goods remaining quantity detection step that detects the remaining quantity of the consumable goods, in said communication information equipment;

10 the second information processing step that performs the processing of various information in the portal server, the second screen display step that displays information-processed information on the screen, the second key input/pointing process that  
15 inputs the information necessary for information processing with the key or by the pointing device on the screen, the second printing step that prints information-processed contents, the second communication step that communicates information-processed contents via the network, the 21st storage  
20 step that stores the mail address and recovery cartridge information of the communication information equipment connected to the portal server in the second mail address database, the 22nd storage step that  
25 stores the delivery store of the consumable goods in the second delivery store database for each area, the 23rd storage step that stores the information of the

mail order center that is connected to the portal server and in which the order issue of the consumable goods is given in the second mail order center registration information database, the twenty-fourth  
5 storage step that stores individual merchandise price information in the second consumable goods price database for each mail order center, in said portal server;

the third information processing step that  
10 performs the electronic settlement based on the authentication information input according to the first processing input on said communication information equipment, the third screen display step that displays information-processed information on the screen, the  
15 third key input/pointing step that inputs the information necessary for information processing with the key or by the pointing device on the screen, the third printing step that prints information-processed contents, the third communication step for  
20 communicating the information necessary for performing the electronic settlement, the third storage step that stores the data necessary for performing the electronic settlement, in said electronic settlement server;

the fourth information processing step that  
25 performs the processing of various information in the mail order center server, the fourth screen display step that displays information-processed on the screen,

the fourth key input/pointing step that inputs the information necessary for information processing with the key or by the pointing device, the fourth printing step that prints information-processed contents, the fourth communication step that communicates the information-processed contents via the network, the 41st storage step that stores the merchandise data necessary for the mail order including the price and the stock quantity controlled in the mail order center in the fourth merchandise database, the 42nd storage step that stores the customer information of the customer of which order is requested in the fourth customer management database, the 43rd storage step the order table of which the order is given in the fourth order table database, the fifth information processing step that performs the processing of various information in the recycling plant server, in said mail order center server;

the fifth screen display step that displays  
20 information-processed information on the screen, the  
fifth key input/pointing step that inputs the  
information necessary for information processing with  
the key or by the point device on the screen, the fifth  
printing step that prints information-processed  
25 contents, the fifth communication step that  
communicates the information-processed information  
contents via the network, the fifth cartridge owner



reading step that reads the owner information stored in the storage area of the cartridge recovered in a recycling plant, the fifth cartridge information reading step that links and stores the number of recovery cartridges and the owner information, in said recycling plant server; and

the sixth information processing step that performs the processing of various information in the merchandise control center server, the sixth screen display step that displays information-processed information on the screen, the sixth key input/pointing step that inputs the information necessary for information processing, the sixth printing step that prints information-processed contents, the sixth communication step that communicates the information-processed contents via the network, and the sixth merchandise inventory step that records the merchandise inventory control information of the consumable goods, in said merchandise control center.

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22. The program executed by the server that controls the status of use of said consumable goods the first consumable goods trader who handles the consumable goods offers, wherein the program makes the computer execute:

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calculating means that receives the status of use of the consumable goods used in the printing device via

the predetermined communication line and calculates the point against the customer in accordance with the received status of use; and

compensation deciding means that decides  
5 compensation that is based on the reduced price, paid to said second consumable goods trader in accordance with the fact that said customer purchases the merchandise the second consumable goods trader offers at said reduced price that is based on said point via  
10 the predetermined purchase screen.

23. A recording medium of which the contents can be read, in which a program code for realizing the consumable goods online shopping system is stored, and  
15 that comprises communication information equipment that consumes consumable goods, the portal server to which data is sent from said communication information equipment, the electronic settlement server that performs the settlement of the transaction performed in  
20 said communication information equipment, the mail order center server for mail-ordering the consumable goods, the recycling plant server installed in the recycling plant of the consumable goods, and the merchandise control center server installed in the  
25 merchandise control center of the consumable goods that interconnect via the network, comprising:

the first information processing step that

performs the processing of various information in the communication information equipment, the first screen display step that displays information-processed information on the screen, the first key input/pointing

5 step that inputs the information necessary for  
information processing with the key/by the pointing  
device on the screen, the first printing step that  
prints information-processed information, the first  
communication step that communicates the information-  
0 processed contents via the network, the first  
consumable goods consumption execution step that  
executes the processing which consumes the consumable  
goods, the first consumable goods remaining quantity  
detection step that detects the remaining quantity of  
5 the consumable goods, in said communication information  
equipment;

the second information processing step that performs the processing of various information in the portal server, the second screen display step that displays information-processed information on the screen, the second key input/pointing process that inputs the information necessary for information processing with the key or by the pointing device on the screen, the second printing step that prints information-processed contents, the second communication step that communicates information-processed contents via the network, the 21st storage

step that stores the mail address and recovery  
cartridge information of the communication information  
equipment connected to the portal server in the second  
mail address database, the 22nd storage step that  
5 stores the delivery store of the consumable goods in  
the second delivery store database for each area, the  
23rd storage step that stores the information of the  
mail order center that is connected to the portal  
server and in which the order issue of the consumable  
10 goods is given in the second mail order center  
registration information database, the twenty-fourth  
storage step that stores individual merchandise price  
information in the second consumable goods price  
database for each mail order center, in said portal  
15 server;

the third information processing step that  
performs the electronic settlement based on the  
authentication information input according to the first  
processing input on said communication information  
20 equipment, the third screen display step that displays  
information-processed information on the screen, the  
third key input/pointing step that inputs the  
information necessary for information processing with  
the key or by the pointing device on the screen, the  
25 third printing step that prints information-processed  
contents, the third communication step for  
communicating the information necessary for performing

the electronic settlement, the third storage step that stores the data necessary for performing the electronic settlement, in said electronic settlement server;

the fourth information processing step that

5 performs the processing of various information in the mail order center server, the fourth screen display step that displays information-processed on the screen, the fourth key input/pointing step that inputs the information necessary for information processing with

10 the key or by the pointing device, the fourth printing step that prints information-processed contents, the fourth communication step that communicates the information-processed contents via the network, the 41st storage step that stores the merchandise data

15 necessary for the mail order including the price and the stock quantity controlled in the mail order center in the fourth merchandise database, the 42nd storage step that stores the customer information of the customer of which order is requested in the fourth

20 customer management database, the 43rd storage step the order table of which the order is given in the fourth order table database, the fifth information processing step that performs the processing of various information in the recycling plant server, in said mail

25 order center server;

the fifth screen display step that displays information-processed information on the screen, the

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fifth key input/pointing step that inputs the information necessary for information processing with the key or by the point device on the screen, the fifth printing step that prints information-processed

5 contents, the fifth communication step that communicates the information-processed information contents via the network, the fifth cartridge owner reading step that reads the owner information stored in the storage area of the cartridge recovered in a  
10 recycling plant, the fifth cartridge information reading step that links and stores the number of recovery cartridges and the owner information, in said recycling plant server; and

the sixth information processing step that  
15 performs the processing of various information in the merchandise control center server, the sixth screen display step that displays information-processed information on the screen, the sixth key input/pointing step that inputs the information necessary for  
20 information processing, the sixth printing step that prints information-processed contents, the sixth communication step that communicates the information-processed contents via the network, and the sixth merchandise inventory step that records the merchandise  
25 inventory control information of the consumable goods, in said merchandise control center.

24. The recording medium of which the contents can be read by the computer, in which the program code for storing the program code read by the server that controls the status of use of said consumable goods the first consumable goods that handles the consumable goods offers, wherein the recording medium stores the program and executes:

calculating means that receives the status of use of the consumable goods used in the printing device via the predetermined communication line and calculates the point against the customer in accordance with the received status of use; and

compensation deciding means that decides compensation that is based on the reduced price, paid to said second consumable goods trader in accordance with the fact that said customer purchases the merchandise the second consumable goods trader offers at said reduced price that is based on said point via the predetermined purchase screen.